

Physics of Shock Waves and High-
Temperature Hydrodynamic Phenomena,
by Yu. B. Zel'dovich, Yu. P. Rayzer,
1973, pp.

MASSACHUSETTS, bk, Fizika Udarnykh Voln i
Vysokotemperaturnykh Gidrodinamicheskikh
Yavleniy, Moscow, 1968, pp 1-632. 9698607
PIL-11-64-514

640??

Sci - Biol & Med Sci; Phys
Nov 68

291,817

Physics of an Explosion, by F. A. Baum.

RUSSIAN, bk, Fizika Vzyva, XI Chapters I-IX,
1959.

EROL, Pt X Balvoir T-1488

62-32430 (1-9)

Sci - Phys
Aug 62

211, 419

Physics of an Explosion, by F. A. Baum. et al. *Step*

RUSSIAN, bk, Fizika Vozryva, Chapters X-XV, Moscow,
1959,

ENCL, Ft Belvoir T-1488

62-32430(10-15)

Sci - Phys
Jan 63

220,72

Baum, F. A., Stanyukovich, K. P., and Shekhter, B. I.
PHYSICS OF AN EXPLOSION, CHAP. X: COMBUSTION
OF EXPLOSIVES. [1962] [87]p. 13 refs. AERDL

T-1488 (j); RIS E-875

Order from OTS or SLA \$8.10

62-32430-3

Partial trans. of mono. [Fizika Vzryuva, Moscow,
1959, 800p.].

Another trans. is available from OTS \$7.60 as
AD-278 133, STL Trans-66.

DESCRIPTORS: *Explosives, *Combustion, Physics,
*Explosions, Ignition, Gases, Flames, Explosive
gases, Detonation, Pressure, Theory, Fulminates,
TNT, TETN, RDX, Tetryl, Powders, Benzenes,
Nitro radicals, Organic azides.

Contents: Basic characteristics of combustion processes
of explosives Combustion of gaseous explosive systems
(Physics, TT, v. 9, no. 8) (over)

62-32430-3

- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Combustion...
- V. AERDL T-1488 (j)
- VI. RIS E-875
- VII. Army Engineer
Research and Develop-
ment Lab., Fort
Belvoir, Va.
- VIII. Research Information
Service, New York
- IX. 62-32430-4 canceled.
Included in 62-32430-3

Office of Technical Services

Baum, F. A., Sanyukovich, K. P., and
Shekhter, B. I.
PHYSICS OF AN EXPLOSION, CHAP. XI. BRISANCE
OF EXPLOSIVES. CHAP. XII. CUMULATION. [1962]
[163]p. AERDL T-1488 (k-1).
Order from OTS or SLA \$12.00 62-32430-5

Partial trans. of mono. [Fizika Vzryuva, Moscow,
1959, 800p.].
Another trans. of v. 12 is available from OTS \$9.60
as AD-266 215, FRL TN-94.

DESCRIPTORS: Physics, *Explosions, *Explosion ef-
fects, Damage, *Shock waves, Fragmentation,
*Shaped charges, *Cavity liners, Jet flames.

See also 62-32430-3

(Physics, TT, v. 9, no. 8)

62-32430-5

- I. Title: Brisance
- I. Baum, F. A.
- II. Sanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Brisance...
- V. Title: Cumulation
- VI. AERDL T-1488 (k-1)
- VII. Army Engineer Research
and Development Labs.,
Fort Belvoir, Va.
- VIII. Research Information
Service, New York

Office of Technical Services

62-32430-6

Baum, F. A., Stanyukovich, K. P., and Shekhter, B. I.
PHYSICS OF AN EXPLOSION, CHAP. XIII: EXPLOSION IN AIR. [1962][135]p. AFRDL T-1488 (m).
Order from OTS or SLA \$10.50 62-32430-6

Partial trans. of mono. [Fizika Vzryva, Moscow, 1959, 800p.].

DESCRIPTORS: Physics, *Explosions, Air, Explosion effects, Damage, *Shock waves, Detonation waves, Fragmentation, Projectiles, Velocity.

Contents:

Fundamental physical effects originating as a result of an explosion

One-dimensional dispersal of detonation products

Dispersal of detonation products for an inclined section

(Physics, TT, v. 9, no. 8)

(over)

- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Explosion ...
- V. AFRDL T-1488 (m)
- VI. Army Engineer Research and Development Labs., Fort Belvoir, Va.
- VII. Research Information Service, New York

Office of Technical Services

62-32430-7

Baum, F. A., Stanyukovich, K. P., and
Shekhter, B. I.
PHYSICS OF AN EXPLOSION. CHAP. XIV. EXPLO-
SIONS IN DENSE MEDIA. CHAP. XV. SYMPATHETIC
DETONATION. [1962] [147]p. AERDL T-1488 (n-o).
Order from OTS or SLA \$11.00 62-32430-7

Partial trans. of mono. [Fizika Vzryuva, Moscow,
1959, 800p.].

DESCRIPTORS: Physics, *Explosions, *Shock waves,
*Wave transmission, Theory, Projectiles, Gases,
Water, Solids, Continuous media, Soils, *Meteorites,
Impact shock, *Detonations.

See also 62-32430-6

(Physics, TT, v. 9, no. 8)

- I. Title: Sympathetic
detonation
- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Explosions ...
- V. Title: Sympathetic ...
- VI. AERDL T-1488 (n-o)
- VII. Army Engineer Research
and Development Labs.,
Fort Belvoir, Va.
- VIII. Research Information
Service, New York

Office of Technical Services

62-32430-8

Baum, F. A., Stanyukovich, K. P., and Shekhter, B. I.
PHYSICS OF AN EXPLOSION, SUPPLEMENT: TOWARD THE THEORY OF CUMULATION OF GASES. [1962] [15p. AERDL T-1488 (p); RIS E-881.
Order from OTS or SLA \$1.60 62-32430-8

Partial trans. of mono. [Fizika Vzryva, Moscow, 1959, 800p.].

DESCRIPTORS: Physics, *Explosions, *Shock waves, Gases, Dynamics, Theory.

(See also 62-32430-7)

(Physics, TT, v. 9, no. 8)

- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Toward ...
- V. AERDL T-1488 (p)
- VI. RIS E-881
- VII. Army Engineer Research and Development Labs., Fort Belvoir, Va.
- VIII. Research Information Service, New York

Office of Technical Services

62-32430-9

Baum, F. A., Stanyukovich, K. P., and Shekhter,
B. I.
PHYSICS OF AN EXPLOSION: CONTENTS [AND]
SUBJECT INDEX. [1962] [8]p. AERDL T-1488 (q).
Order from OTS or SLA \$1.10 62-32430-9

Partial trans. of russia. [Fizika Vzryuva, Moscow,
1959, 800p.]

DESCRIPTORS: Physics, *Explosions, Indexes.

(See also 62-32430-8)

(Physics, IT, v. 9, no. 8)

- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. AERDL T-1488 (q)
- V. Army Engineer Research
and Development Lab.,
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Office of Technical Services

S-487/63

Physics of Earthquakes and Explosion Seismology,
by I. L. Hersesov. (DC-8627)

RUSSIAN, bk, Fizika Zemletryaseniy i Seysmika
Vzryvov, ~~Trudy Fiziko-Matematicheskoy~~
O. ~~1962~~, No 25 (192), 1962, pp 3-350.

JPRS 20,465

Sci - Earth Sci

May 63

Physical and Geographic Mapping, Part III,
by A. G. Isachenko, 189 pp.

RUSSIAN, bk, Fiziko-Geograficheskoye
Kartirovaniye, Chast' III, 1961, 253 pp.

ACSI 1-2669

ID 2235111

FD 22040198-66-V

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Mar 66

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Physiographic Provinces, by N. I. Mikheylov,
47 pp.

RUSSIAN, per, Platko-Geograficheskiy Otschek,
1956, pp (abstracts from entire ~~pub~~ publication).
(CALL No 08239, M5 M53, 1956, R Tr)

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Oct 61

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Physical and Geographical Division into Rayons, by
N. I. Mikhaylov, (DC-6696)

RUSSIAN, bk, Fiziko-Geograficheskoye Rayonirovaniye,
1960, pp 16-17.

*JPRS

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12 Mar 62

Principles of Geomorphological Zoning,
by Chou Ting-ju, 26 pp.

RUSSIAN, ^{bK} ~~1957~~, Fiziko-Geograficheskoye
Rayonirovaniye Kitaya, 1957, pp 46-64.
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Project of Hydrological Zoning of China, 16 pp.

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Kitaya, Vol. I, Moscow, 1957, pp 88-103. Call No
GB 316, C572.

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FK - China
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Nov 59

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62-34298

Levich, V. G.
MOVEMENT OF DROPS AND BUBBLES IN LIQUID
MEDIA. Jan 62, 12p. 34 refs.
Order from ICE in v. 2, no. 1, \$15.00/year

Partial trans. of mono. [Fiziko-Khimicheskaya
Gidrodinamika] (Physicochemical Hydrodynamics)
[2d ed] Moscow, 1959.

DESCRIPTORS: Hydrodynamics, *Bubbles, Absorp-
tion, Velocity, Viscosity, Resistance, Diffusion,
Mathematical analysis, *Drops.

(Mechanics--Hydrodynamics, TT, v. 8, no. 10)

- I. Levich, V. G.
- II. Title: Physicochemical ...
- III. International Chemical
Engineering, New York

Office of Technical Services

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Levich, V. G.
PHYSICOCHEMICAL HYDRODYNAMICS, 2D ED
REV. 1962, 1v. 700p.
Order from Prentice-Hall, Inc., Englewood Cliffs, N. J.
\$20.00

Trans. of mono. Fiziko-Khimicheskaya Gidrodinamika,
2d ed. rev., Moscow, 1959, 699p.

DESCRIPTORS: *Physical chemistry, *Hydrodynamics,
Chemistry.

(Chemistry--Physical, TT, v. 9, no. 8)

- I. Levich, V. G.
- II. Prentice-Hall, Inc.,
Englewood Cliffs, N. J.
- III. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Physicochemical Hydrodynamics, by ~~YENIKEN~~ Veniamin
G. Levich, 716 pp.

RUSSIAN, bk, Fiziko-Khimicheskaya Gidrodinamika,
Moscow, 1959, pp 1-699.

ABC-2-5555

Physics - 401

Sci - Phys

Jan 63

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Mass Spectrometric Methods of Determining Small
Quantities of Impurities, by S. Ye. Kupriyanov.

37 pp.

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Problemy Fizicheskoy Khimii, No 3, 1963,

pp 66-75. P100017666

FTD-AI-65-226

Sci/Physics
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Double Mass Spectrometer for the Investigation
of Dissociation of Ions During Collision With
Atoms and Molecules of Different Gases, by
S. Ye. Kupriyanov. 37 pp.
RUSSIAN, per, Fiziko-Khimicheskiy Institut.
Problemy Fizicheskoy Khimii, No 3, 1963,
pp 76-85. P100017666
FTD-17-65-226

Sci/Physics
Sep 66

309,380

Table of Contents and Review of:
Physical and Chemical Studies of Austenitic Alloys,
10 pp.

RUSSIAN, bk, Fiziko-Khimicheskiye Issledovaniya
Austenitnykh Splavov, Tsentral'nyy Nauchno Issledovatel-
skiy Institut Tekhnologii i Mashinostroyeniya, Moscow,
1957, 258 pp.

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Physical-Chemical Investigations of Austenite Alloys, 3 p

RUSSIAN, bk, Fiziko-Khimicheskie Issledovaniya
Austenitnykh Splavov, Moscow, 260 pp.

Engr Res and Devel Lab
Ft Belvoir, Va

Apparatus for Measuring Magnetic Susceptibility
of Austenitic Alloys, S. D. ENTIK.

RUSSIAN, in, Fiziko-Khimicheskie Issledovaniya
Austenitnykh Splavov, 1957.

*BISI E 212

Sci -

Jun 61

Electromagnetic Apparatus for Determining Ferrite
in Weld Seams in Austenitic Steels, by S. D. ENTIN,
and V. Ya. KOZLOV.

RUSSIAN, in, Fiziko-Khimicheskie Issledovaniya
Austenitnykh Splavov, 1957

*BISI E 2200

Sci -

Jun 61

Physicochemical Investigation of Sedimentary Iron
and Manganese Ores and Enclosing Rocks (Oxidation-
Reduction and Basic-Acid Properties of Sedimentary Ore-
Bearing Complexes, by L. I. Sokolova.

RUSSIAN, mono, Fiziko-khimicheskie issledovaniya
Osadochnykh Zheleznykh i Margantsevykh Rud i
Vmeschayushchikh Ikh Porod, Moscow, 1962, 214 pp.

•IPST 2062

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DC - 6033).

Physico-Chemical Investigations on Barium and
Iron Titanates, by N. I. Shchepochkin,

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Issledovaniya Titanatov Bariya i Zheleza,
1958, pp 1-62.

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Sci - Min/Met

13 Mar 61

Physical-Chemical Mechanics of Metals -
~~Adsorption~~ Absorption Phenomena and Fracture
Processes, by V. I. Likhtman, et al. 24/21.

RUSSIAN, mono, Fiziko-Khimicheskaya Mekhanika
Metallov; Adsorbtsionnyye Yavleniya v
Protsessakh Deformatsii i Razrusheniya, 1962,

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PL-430

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OT 5 64-11000

Mar 63

Physicochemical Basis of the Analysis of the
Paragenesis of Minerals, by D. S. Morzhinskiy, 180 pp

RUSSIAN, bk, Fiziko Khimicheskiye Osnovy Analiza
Paragenesisev Mineralov, 1957, 388-pp. NDC Jan-
Feb 1959.

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Sci - Min/Met

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Physico-Chemical Fundamentals of Ceramics, by
P. P. Budnikov, (Ed.)
RUSSIAN, bk, Fiziko-Khimicheskie Osnovy Keramiki,
Moscow: Special Symposium, 1955.

Suggested for Tr by United Kingdom
per memo from KSF (Theobald)
- 13 Jan 1959

Effect of Vacuum Degassing on Casting Properties of Alloys, by Yu. A. Makhanitski, 36 pp.

RUSSIAN, bk, Fiziko-Khimicheskiye Osnovy Metallurgicheskikh Protsessov, 1964, pp. 266-297.

JPRS 30212

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Sci-Mat/Met
May 65

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The Physico-chemical Principles of
Metallurgical Processes.
RUSSAIN, bk (Symposium of Articles),
Fiziko-Khimicheskiye Osnovy Metallurgicheskikh
Protsessov, 1964, 444 pp.
NLI RTS 31405 (On Loan)

Aug 65

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The Physicochemical Principles of Igneous Petrology,
by A. N. Zavaritskii and V. S. Sobolov, 220 p.
RUSSIAN, mono, Fiziko-Khimicheskie Osnovy Petrografii
Izverzhennykh Gornykh Porod, 1961.
IPST-2056

Sci-Ear Sci
Jun 66

303,723

Oxidation of Chromium and Phosphorus
During Oxygen Top Blowing of Steel,
by N. P. Levenets, et al.

RUSSIAN, ~~EMX~~, rpt, Fiz-Khim Osnovy ~~EMX~~
Proiz, 1961, pp 237-244.

HB 5361

Sci - Chem

Jan 62

178,322

Refining of Rimmed Steel by Removal of High
Melting Inclusions, by S. I. Popel, G. F. Konovalov.
RUSSIAN, rpt. Fiz-Khim Osnovy Proizvod Stali,
1961, pp 325-330.
•DSE 3751

Sci & Engg M/M
Jun 64

Effect of Carbon on the Permeability
of Steels to Hydrogen, by P. V. Gel'd,
R. A. Ryabov.

RUSSIAN, rpt, Fiz-Khim Osnovy Proiz Stali,
1961, pp 457-460.

HB 5360

Sci - Chem

Jan 62

178, 313

TT-64-15098

Thompson, J. B.
MINERAL FACIES IN PELITIC SCHISTS
Ivan Mittin, tr. 1963 [37p] 34refs
Order from OTS, SLA, or ETC \$3.60 TT-64-15098

Trans. of mono. Fiziko-Khimicheskie Problemy
Formirovaniya Gornykh Porod (Physico-Chemical
Problems of Formation of Rocks and Ores) Moscow,
1961, p. 313-325.

I. Thompson, J. B.
II. Title: Physico-Chemical...
III. Geological Survey,
Denver, Colo.

(Earth Sciences--Mineralogy, TT, v. 11, no. 11)

Office of Technical Services

Pressure-Temperature Diagram of Part of the
SiO₂-H₂O System, by I. A. Ostrovskiy and G. P.
Mishina, et al.
RUSSIAN, per, Fizikokhimicheskie Problemy
formirovaniya Gornykh Porod i Rud, Vol 1,
1961, pp 641-646. 100031466
APCRL T-R-628

Sci-Phys
Sept 66

310,583

Forward, by G. M. Frank,

RUSSIAN, bk. Fizika Khimicheskii i Strukturalnyi
Osobyi Khimicheskii (1972-1973), 1960, pp 3-6.

WJSDA

Sci - *Med*
Aug 61

Vol'kenshtein, M. V.
LARGE MOLECULES AND BIOLOGY (Bol'shie
Molekuly i Biologiya), 20 Oct 61, 8p. Trans. A-1300.
Order from ODS or SLA \$1.10 62-13476

Trans. of mono. Fiziko-Khimicheskie i Strukturne
Osnovy Biologicheskikh Yavlenii, Moscow, 1960,
p. 7-11.

DESCRIPTORS: *Molecular structure, *Polymers,
Blood plasma, Proteins, Stereochemistry, Molecular
isomerism, *Electrolytes (Physiology), Bioelectronics,
Mitosis, *Biochemical genetics.

A discussion is presented of the reason why organisms
are formed, in the main, from high molecular com-
pounds, why life does not use material constructed
from small molecules, such as, for instance, metals
and semiconductors? The answer to this question is
connected with the examination of the characters that
distinguish macromolecules from small molecules.

62-13476

I. Vol'kenshtein, M. V.
II. Trans-A-1300

(Biological Sciences, IT, v. 7,
no. 16)

Office of Technical Services

62-13475

Kitaigorodskii, A. I.
TASKS OF STRUCTURAL INVESTIGATIONS IN THE
FIELD OF HIGH POLYMERIC AND HIGH MOLECU-
LAR SUBSTANCES (Zadachi Strukturykh issledovani
v Oblasti Vysokopolimernykh i Vysokomolekulyarnykh
Veshchestv). 20 Oct 61, 11p. 4 refs. Trans. A-1301.
Order from OTS or SLA \$1.60 62-13475

I. Kitaigorodskii, A. I.
II. Trans-A-1301

Trans. of mono. Fiziko-Khimicheskie i Strukturne
Osnovy Biologicheskikh Yavlenii, Moscow, 1960,
p. 12-17.

DESCRIPTORS: *Polymers, *Organic compounds,
Molecules, *Molecular structure, Molecular beams,
Ribonuclease.

(Physics--Molecular, TT, v. 7, no. 9)

Office of Technical Services

Dubinin, N. P., Sidorov, B. N., and Sokolov, N. N.
RADIOGENETIC EFFECT OF VISIBLE LIGHT IN
PROVOKING CHROMOSOMAL REARRANGEMENTS
(Radiogeneticheskiy Effekt Vidimogo Sveta pri
Vyzyvani Khromosomnykh Perestroek). 25 Oct 61.
22p. 44 refs. Trans. A-1302.
Order from OTS or SLA \$2.60

62-13474

- I. Dubinin, N. P.
- II. Sidorov, B. N.
- III. Sokolov, N. N.
- IV. Trans-A-1302

Trans. of mono. Fiziko-Khimicheskie i Strukturne
Osnovy Biologicheskikh Yavlenii, Moscow, 1960,
p. 142-153

DESCRIPTORS: *Chromosomes, Cells (Biology).
Photochemistry. Mitosis. Chemical reactions.
Genetics. *Light. Visibility, Radiation effects.

The photodynamic action of rivanol in relation to
chromosome rearrangements in the cells of onion
roots was demonstrated. Photons, even with energy
as low as that of visible light, in penetrating into the
(Nuclear Physics - Radioactivity, TT, v. 8, no. 1)(over)

Office of Technical Services

Importance of Histo-Chemical Characteristics of
Isoelectric Points of Nucleo-Proteins of Cell
Cytoplasm of the Animal Organism in the Theory of
Radio Biological Reactivity, by A. L. Shabadash, 26 pp.

RUSSIAN, bk, Fiziko-Khimicheskie i Strukturnye
Osnovy Biologii, 1960, no 154-168.

RUSSIA A-1303

Sci -
14 Aug 61

62-13470

Breslavets, L. P. and Milesko, Z. F.
 IMPORTANCE OF POLYPLOIDY IN THE PROTECTION OF PLANTS AGAINST IONIZING RADIATION
 (Znacheniye Poliploidii v Zashchite Rastenii ot Ioniziruyushchikh Izлучeni). 24 Oct 61, 10p. 4 refs
 Trans. A-1304.
 Order from OTS or SLA \$1.10

62-13470

Trans. of mono. Fiziko-Khimicheskie i Strukturnye
 Osnovy Biologicheskikh Yavlenii, Moscow, 1960,
 p. 169-174

DESCRIPTORS: *Chromosomes, *Radiation damage,
 Countermeasures, Growth, Seeds, Nucleic acids,
 Pollen, Gamma rays, Neutrons, *Plants.

Experiments in protection of plants [against radiation]
 with the aid of chemical action produce successful
 results which can be explained by a decrease of
 chromosome aberrations. But such protection has no
 (Nuclear Physics - Radioactivity, TT, v. 8, no. 2)
 (over)

I. Breslavets, L. P.
 II. Milesko, Z. F.
 III. Trans-A-1304

Office of Technical Ser-

Physico-Chemical Basis of the Process of Gluing
and Adhesion, by N. I. Moskvitin.
RUSSIAN, bk. Fiziko-khimicheskie osnovy protsessov
skleivaniya i prilipaniya — Moskva, Legnava
Prosvetlenost', 1964, 248 pp.
*CPSI TT 68-50368

Sci/Chem
Feb 68

Physico-Chemical Properties of the Elements,
by G. V. Samsonov,
RUSSIAN, bk, Fiziko-Khimicheskie Svoistva
Elementov, 1965.

*CB
fourth quarter 1966

May 66

Physicochemical Properties of Individual Hydrocarbons, by V. M. Tatevskiy, (edited by).

RUSSIAN, bk, Fiziko-Khimicheskie Svoista Individual'nykh Ugleodorodov, 1961.

*ATS

Sci - Chem

Oct 62

*after completed from
"Fiziko-Khimicheskie Svoista Individual'nykh Ugleodorodov"*

PHYSICO-CHEMICAL PROPERTIES OF GLASS FIBER, BY
A. F. ZAK, 282 PP.

RUSSIAN, BK, FIZIKO-KHIMICHESKIYE SVOYSTVA
STEKLYANNOGO VOLOKNA, MOSCOW, 1962, PP 1-224.

JPRS 19122

SCI-CHEM
MAY 63

229,931

61-23146

Urusovskaya, A. A.
FORMATION OF REGIONS WITH REORIENTATED
LATTICE DURING THE DEFORMATION OF SINGLE
AND POLYCRYSTALLINE METALS AND MINERALS
(Obrazovanie Oblastey s Pereorientirovannoi Reshetkoi
pri Deformatsii Mono- i Polykristallov). May 61 [32]p.
47 refs. RTS 1772.
Order from OTS or SLA \$3.60

61-23146

Trans. of Itogi Nauki. Fiziko-Matematicheskie Nauki
(USSR) 1960, v. 3, p. 75-116.

DESCRIPTORS: *Metallic crystals, Lattices, Minerals,
Crystal structure.

A historical review is given of studies on deformation
arising from the rotation of crystal lattices under the
influence of mechanical forces. Topics include: rota-
tion bands in minerals; kink-band formation in metal
crystals on deformation by compression; kinks in metal
(Physics--Solid State, TT, v. 6, no. 8) (over)

- I. Urusovskaya, A. A.
- II. RTS-1772
- III. Department of Scientific
and Industrial Research
(Gt. Brit.)

295177

Office of Technical Services

63-11002

Ostroumov, G. A.
THEORY OF MAGNETIC MIXING OF MELTS, by
Z. Lerman. 1963, 44p, 9 refs. PL-480 Comm.
Order from OTS \$0.50 63-11002

Trans. of mono. Fiziko-Matematicheskie Osnovy
Magnitnogo Peremeshivaniya Rasplavov, Moscow, 1960
[63]p.

DESCRIPTORS: *Electroforming, *Liquid metals,
Mixtures, *Hydrodynamics, Metallurgy, Theory,
Electromagnetic waves, Propagation,
Magnetohydrodynamics.

This book contains an electrodynamic part, where the
propagation of a travelling wave in a half-space and in
a finite conductor are discussed and the distribution of
electrodynamic body forces is derived; a hydrodynamic
part, dealing with the optimization of stator current
(Metallurgy, TT, v. 10, no. 3) (over)

- I. Ostroumov, G. A.
- II. PL-480 Comm (63-11002)
- III. National Science
Foundation,
Washington, D. C.

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